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Abstract of the Disclosure:

Reduction of cogging torque and torque pulsation in the rotor with permanent magnets embedded therein. In a rotating electrical machine comprising a stator 5 with an armature winding wound on the stator core and a rotor 1 with permanent magnet 2 embedded in the rotor core 9, a magnetic flux short circuit preventive hole 3 radially extending from the circumferential ends of the permanent magnets 2 (in the vicinity of q-axis) to the vicinity of outer periphery of the rotor core is further extended toward the d-axis (circumferential direction). At the same time, the distance between the outer periphery of the magnetic flux short circuit preventive hole 3 and that of the rotor core is increased gradually in conformity to the approach to d-axis side from q-axis.

[Selected Figure] Fig. 1